



Dual Limit Photo-Detector Monitor

Description

This circuit has 2 limits, a lower limit and an upper limit, which produces 2 separate outputs, the first one function as an indicator and the second one function as a buzzer warning or an alarm condition. This type of signal can be used as a warning signal or a control signal whenever V_{LIMIT2} has been exceeded. The output of comparator with V_{LIMIT2} can easily drive multiple outputs, which can include, in addition to the buzzer, a control gate and another LED indicator. Note that this circuit works with either open-drain or push-pull types of comparator output, depending upon the load(s) to be driven. The load, in many cases, can act as a pull-up, so that a pull-up resistor is not required. Alternatively, push-pull outputs can actively pull-up the output to shutdown the load. In either case an output resistor is not needed and its associated power consumption is eliminated.

For full schematic diagram and notes, please register and login at aldinc.com